CUMULATIVE INDEXES

CONTRIBUTING AUTHORS, VOLUMES 13–17

A

Aarseth, S. J., 13:1–21
Aizenman, M. L., 16:215–40
Allen, R. J., 14:417–45; 16:103–39
Angel, J. R. P., 16:487–519
Audouze, J., 14:43–79

B

Bahcall, J. N., 16:241–64
Bahcall, N. A., 15:505–40
Barkat, Z., 13:45–68
Barshay, S. S., 14:81–94
Baym, G., 17:415–43
Bracewell, R. N., 17:113–34
Brown, R. L., 16:445–85
Burns, J. A., 15:97–126
Burton, W. B., 14:275–306

C

Canuto, V., 13:335–80
Carbon, D. F., 17:515–49
Carson, T. R., 14:95–117
Cassen, P., 15:97–126
Cassinelli, J. P., 17:275–308
Caughlan, G. R., 13:69–112
Chaffee, F. H. Jr., 14:23–42
Chapman, C. R., 16:33–75
Chevalier, R. A., 15:175–96
Conti, P. S., 16:371–92
Coroniti, F. V., 15:389–436
Counselman, C. C. III, 14:197–214
Cox, J. P., 14:247–73

D

De Young, D. S., 14:447–74

E

Eardley, D. M., 13:381–422
Elliot, J. L., 17:445–75

F

Faber, S. M., 17:135–87
Ford, W. K. Jr., 17:189–212
Fowler, W. A., 13:69–112

G

Gallagher, J. S., 16:171–214; 17:135–87
Gault, D. E., 15:97–126
Giffard, R. P., 16:521–54
Ginzburg, V. L., 13:511–35
Gorenstein, P., 14:373–416
Gott, J. R. III, 15:235–66
Grasdalen, G. L., 13:187–216
Gursky, H., 15:541–68

H

Habing, H. J., 17:345–85
Hansen, C. J., 16:15–32
Harris, W. E., 17:241–74
Hartmann, W. K., 16:33–75
Heiles, C., 14:1–22
Hoag, A. A., 17:43–71
Howard, R., 15:153–73
Huebner, W. F., 14:143–72

I

Israel, F. P., 17:345–85

J

Jauncey, D. L., 13:23–44
Jenkins, E. B., 13:133–64

K

Kennel, C. F., 15:389–436
Knapp, G. R., 16:445–85
Kraft, R. P., 17:309–43

L

Labeyrie, A., 16:77–102
Lebofsky, M. J., 17:477–511
Lecar, M., 13:1–21
Leovy, C. B., 17:387–413
Lesh, J. R., 16:215–40
Lewis, J. S., 14:81–94
Lockman, F. J., 16:445–85

M

Manchester, R. N., 15:19–44
Marov, M. Ya., 16:141–69
Mathis, J. S., 17:73–111
McCray, R., 17:213–40
Merrill, K. M., 17:9–41

N

Nicholls, R. W., 15:197–234
Noyes, R. W., 15:363–87

O

O'Dell, S. L., 14:173–95
Oort, J. H., 15:295–362
Öpik, E. J., 15:1–17

P

Parker, E. N., 15:45–68
Payne-Gaposchkin, C., 16:1–13
Peale, S. J., 14:215–46
Peimbert, M., 13:113–31
Peterson, L. E., 13:423–509
Pethick, C., 17:415–43
Pettengill, G. H., 16:265–92
Pipher, J. L., 16:335–69
Podosek, F. A., 16:293–334
Press, W. H., 13:381–422

R

Racine, R., 17:241–74
Rickett, B. J., 15:479–504
Ridgway, S. T., 17:9–41
Rieke, G. H., 17:477–511
Robinson, E. L., 14:119–42
Robinson, L. B., 13:165–85
Rosner, R., 16:393–428

S

Salpeter, E. E., 15:267–93
Savage, B. D., 17:73–111
Schroeder, D. J., 14:23–42
Schwartz, D. A., 15:541–68
Smith, A. G., 17:43–71
Snow, T. P. Jr., 17:213–40
Soifer, B. T., 16:335–69
Spitzer, L. Jr., 13:133–64
Starrfield, S., 16:171–214
Steigman, G., 14:339–72
Stein, W. A., 14:173–95
Strittmatter, P. A., 14:173–95, 307–38
Strom, K. M., 13:187–216
Strom, R. G., 15:97–126
Strom, S. E., 13:187–216
Svalgaard, L., 16:429–43
Swings, P., 17:1–7

T

Taylor, J. H., 15:19–44
Thomas, H.-C., 15:127–51
Tinsley, B. M., 14:43–79
Toomre, A., 15:437–78
Tucker, W. H., 14:373–416
Tyson, J. A., 16:521–54

V

Vaiana, G. S., 16:393–428
van de Kamp, P., 13:295–332
van den Bergh, S., 13:217–55
van der Kruit, P. C., 14:417–45; 16:103–39
Verschuur, G. L., 13:257–93

W

Watson, W. D., 16:585–615
Weedman, D. W., 15:69–95
Whipple, F. L., 14:143–72
Wilcox, J. M., 16:429–43
Williams, J. G., 16:33–75
Williams, R. E., 14:307–38
Withbroe, G. L., 15:363–87
Woodward, P. R., 16:555–84

Z

Zhelezynakov, V. V., 13:511–35
Zimmerman, B. A., 13:69–112

CHAPTER TITLES, VOLUMES 13–17

PREFATORY CHAPTER		
About Dogma in Science and Other Recollections of an Astronomer	E. J. Öpik	15:1–17
The Development of our Knowledge of Variable Stars	C. Payne-Gaposchkin	16:1–13
A Few Notes on My Career as an Astrophysicist	P. Swings	17:1–7
SOLAR SYSTEM ASTROPHYSICS		
Chemistry of Primitive Solar Material	S. S. Barshay, J. S. Lewis	14:81–94
Physical Processes in Comets	F. L. Whipple, W. F. Huebner	14:143–72
Mercury	D. E. Gault, J. A. Burns, P. Cassen, R. G. Strom	15:97–126
Jupiter's Magnetosphere	C. F. Kennel, F. V. Coroniti	15:389–436
The Asteroids	C. R. Chapman, J. G. Williams, W. K. Hartmann	16:33–75
Physical Properties of the Planets and Satellites from Radar Observations	G. H. Pettengill	16:265–92
Isotopic Structures in Solar System Materials	F. A. Podosek	16:293–334
Results of Venus Missions	M. Ya. Marov	16:141–69
Martian Meteorology	C. B. Leovy	17:387–413
Stellar Occultation Studies of the Solar System	J. L. Elliot	17:445–75
SOLAR PHYSICS		
The Origin of Solar Activity	E. N. Parker	15:45–68
Large-Scale Solar Magnetic Fields	R. Howard	15:153–73
Mass and Energy Flow in the Solar Chromosphere and Corona	G. L. Withbroe, R. W. Noyes	15:363–87
Recent Advances in Coronal Physics	G. S. Vaiana, R. Rosner	16:393–428
A View of Solar Magnetic Fields, the Solar Corona, and the Solar Wind in Three Dimensions	L. Svalgaard, J. M. Wilcox	16:429–43
STELLAR PHYSICS		
The Structure of Cataclysmic Variables	E. L. Robinson	14:119–42
Nonradial Oscillations of Stars: Theories and Observations	J. P. Cox	14:247–73
Recent Observations of Pulsars	J. H. Taylor, R. N. Manchester	15:19–44
Secular Stability: Applications to Stellar Structure and Evolution	C. J. Hansen	16:15–32
Theory and Observations of Classical Novae	J. S. Gallagher, S. Starrfield	16:171–214
The Observational Status of β Cephei Stars	J. R. Lesh, M. L. Aizenman	16:215–40
Mass Loss in Early-Type Stars	P. S. Conti	16:371–92
Magnetic White Dwarfs	J. R. P. Angel	16:487–519
Infrared Spectroscopy of Stars	K. M. Merrill, S. T. Ridgway	17:9–41
Stellar Winds	J. P. Cassinelli	17:275–308
On the Nonhomogeneity of Metal Abundances in Stars of Globular Clusters and Satellite Subsystems Of the Galaxy	R. P. Kraft	17:309–43
Physics of Neutron Stars	G. Baym, C. Pethick	17:415–43
Model Atmospheres for Intermediate- and Late-Type Stars	D. F. Carbon	17:513–49

DYNAMICAL ASTRONOMY		
Computer Simulations of Stellar Systems	S. J. Aarseth, M. Lecar	13:1–21
Unseen Astrometric Companions of Stars	P. van de Kamp	13:295–333
Radio Astrometry	C. C. Counselman III	14:197–214
Orbital Resonances in the Solar System	S. J. Peale	14:215–46
Theories of Spiral Structure	A. Toomre	15:437–78
INTERSTELLAR MEDIUM		
Ultraviolet Studies of the Interstellar Gas	L. Spitzer Jr., E. B. Jenkins	13:133–64
Young Stellar Objects and Dark Interstellar Clouds	S. E. Strom, K. M. Strom, G. L. Grasdalen	13:187–216
The Interstellar Magnetic Field	C. Heiles	14:1–22
The Interaction of Supernovae with the Interstellar Medium	R. A. Chevalier	15:175–96
Formation and Destruction of Dust Grains	E. E. Salpeter	15:267–93
Interstellar Scattering and Scintillation of Radio Waves	B. J. Rickett	15:479–504
Radio Recombination Lines	R. L. Brown, F. J. Lockman, G. R. Knapp	16:445–85
Gas Phase Reactions in Astrophysics	W. D. Watson	16:585–615
Observed Properties of Interstellar Dust	B. D. Savage, J. S. Mathis	17:73–111
Compact H II Regions and OB Star Formation	H. J. Habing, F. P. Israel	17:345–85
SMALL STELLAR SYSTEMS		
Consequences of Mass Transfer in Close Binary Systems	H.-C. Thomas	15:127–51
Theoretical Models of Star Formation	P. R. Woodward	16:555–84
THE GALAXY		
High-Velocity Neutral Hydrogen	G. L. Verschuur	13:257–93
The Morphology of Hydrogen and of Other Tracers in the Galaxy	W. B. Burton	14:275–306
The Galactic Center	J. H. Oort	15:295–362
EXTRAGALACTIC ASTRONOMY		
Chemical Composition of Extragalactic Gaseous Nebulae	M. Peimbert	13:113–31
Stellar Populations in Galaxies	S. van den Bergh	13:217–55
Chemical Evolution of Galaxies	J. Audouze, B. M. Tinsley	14:43–79
The Radio Continuum Morphology of Spiral Galaxies	P. C. van der Kruit, R. J. Allen	14:417–45
Extended Extragalactic Radio Sources	D. S. De Young	14:447–74
Seyfert Galaxies	D. W. Weedman	15:69–95
Clusters of Galaxies	N. A. Bahcall	15:505–40
The Kinematics of Spiral and Irregular Galaxies	P. C. van der Kruit, R. J. Allen	16:103–39
Masses and Mass-to-Light Ratios of Galaxies	S. M. Faber, J. S. Gallagher	17:135–87
Globular Clusters in Galaxies	W. E. Harris, R. Racine	17:241–74
Infrared Emission of Extragalactic Sources	G. H. Rieke, M. J. Lebofsky	17:477–511
OBSERVATIONAL PHENOMENA		
The BL Lacertae Objects	W. A. Stein, S. L. O'Dell, P. A. Strittmatter	14:173–95
The Line Spectra of Quasi-Stellar Objects	P. A. Strittmatter, R. E. Williams	14:307–38
Soft X-Ray Sources	P. Gorenstein, W. H. Tucker	14:373–416
Extragalactic X-Ray Sources	H. Gursky, D. A. Schwartz	15:541–68
Masses of Neutron Stars and Black Holes in X-Ray Binaries	J. N. Bahcall	16:241–64
GENERAL RELATIVITY AND COSMOLOGY		
Radio Surveys and Source Counts	D. L. Jauncey	13:23–44
Astrophysical Processes Near Black Holes	D. M. Eardley, W. H. Press	13:381–422
Observational Tests of Antimatter Cosmologies	G. Steigman	14:339–72

Recent Theories of Galaxy Formation	J. R. Gott III	15:235–66
Gravitational-Wave Astronomy	J. A. Tyson, R. P. Giffard	16:521–54
INSTRUMENTATION AND TECHNIQUES		
On-Line Computers for Telescope Control and Data Handling	L. B. Robinson	13:165–85
Instrumental Technique in X-Ray Astronomy	L. E. Peterson	13:423–509
Astronomical Applications of Echelle Spectroscopy	F. H. Chaffee Jr., D. J. Schroeder	14:23–42
Stellar Interferometry Methods	A. Labeyrie	16:77–102
Instrumentation for Infrared Astronomy	B. T. Soifer, J. L. Pipher	16:335–69
Advances in Astronomical Photography at Low Light Levels	A. G. Smith, A. A. Hoag	17:43–71
Computer Image Processing	R. N. Bracewell	17:113–34
Digital Imaging Techniques	W. K. Ford Jr.	17:189–212
PHYSICAL PROCESSES		
Neutrino Processes in Stellar Interiors	Z. Barkat	13:45–68
Thermonuclear Reaction Rates, II	W. A. Fowler, G. R. Caughlan, B. A. Zimmerman	13:69–112
Equation of State at Ultrahigh Densities, II	V. Canuto	13:335–80
On the Pulsar Emission Mechanisms	V. L. Ginzburg, V. V. Zhelez-nyakov	13:511–35
Stellar Opacity	T. R. Carson	14:95–117
Transition Probability Data for Molecules of Astrophysical Interest	R. W. Nicholls	15:197–234